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1 Special session on NOMADS: An architecture to support cooperating mobile embedded systems

Edgar Nett, Stefan Schemmer

April 2004 **Proceedings of the 1st conference on Computing frontiers**

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There is a sustained trend to embed computer systems in all kinds of intelligent products. Increasing emphasis is given to enhance the functionality of such systems beyond the provision of easy-of-use and comfort to more safety-critical tasks where they exert direct control over the intelligent product. Examples of such systems can be exploited in many domains like team robotics, factory automation, transport systems, and intelligent traffic control. To master the inherent complexity, we present ...

Keywords: mobile embedded systems, mobility and adaptivity, modeling of complex systems, service-based architectures, wireless ad-hoc networks

2 Dynamic adaptive routing for a heterogeneous wireless network

Eric Hsiao-Kuang Wu, Yi-Zhan Huang

June 2004 **Mobile Networks and Applications**, Volume 9 Issue 3

Full text available: pdf(822.01 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an integrated architecture of a Heterogeneous Wireless Network (HWN) and a dynamic adaptive routing protocol (DARP) for a HWN. To allow mobile users versatile communication with anyone or any device at any place and anytime, HWN integrates cellular network with an ad hoc network (independent Basic Service Set) in wireless local area network (WLAN) and reserves advantages of sizable coverage in a cellular network and high data rate in deployable ad hoc network. It also enlarge ...

Keywords: QoS, QoS routing, ad hoc network, cellular network, heterogeneous network, heterogeneous wireless network, hybrid network, multihop network, routing, wireless local network, wireless network

3 Papers: MPEG transmission schemes for a timed token medium access control network

Joseph Kee-Yin Ng

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

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This paper presents three transmission schemes to improve the transmission of MPEG video

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1 Invited workshop on design and applications of reconfigurable systems: Reconfigurable distributed systems based on FPGAs and fieldbuses
José Fonseca, Arnaldo Oliveira
January 2005 **Proceedings of the 4th international symposium on Information and communication technologies WISICT '05**
Full text available: pdf(408.33 KB) Additional Information: full citation, abstract, references

Today, distributed systems based on a set of processor-based nodes are pervasive in many applications such as acquisition systems or embedded systems. The communication is often based in a fieldbus network which enables also functionalities such as program download and node synchronization. The use of FPGAs, replacing processors is appealing, providing remote reconfiguration through the fieldbus is possible. This paper describes a solution for this requirement.

2 Dynamic adaptive routing for a heterogeneous wireless network
Eric Hsiao-Kuang Wu, Yi-Zhan Huang
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Keywords: QoS, QoS routing, ad hoc network, cellular network, heterogeneous network, heterogeneous wireless network, hybrid network, multihop network, routing, wireless local network, wireless network

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Edgar Nett, Stefan Schemmer
April 2004 **Proceedings of the 1st conference on Computing frontiers**
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There is a sustained trend to embed computer systems in all kinds of intelligent products. Increasing emphasis is given to enhance the functionality of such systems beyond the provision of easy-of-use and comfort to more safety-critical tasks where they exert direct control over the intelligent product. Examples of such systems can be exploited in many

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Keywords: mobile embedded systems, mobility and adaptivity, modeling of complex systems, service-based architectures, wireless ad-hoc networks

2 Agents, interactions, mobility, and systems (AIMS): Software agents for process monitoring and notification

Larry Bunch, Maggie Breedy, Jeffrey M. Bradshaw, Marco Carvalho, Niranjan Suri, Andrzej Uszok, Jack Hansen, Michal Pechoucek, Vladimir Marik

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

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Safety and efficiency are primary concerns in chemical processing facilities, though the complexity of many such systems often makes it difficult for operators to detect abnormal conditions before they compromise throughput or become hazardous. In this paper, we report initial results from the application of multi-agent systems to monitor complex chemical processes and flexibly and appropriately notify key plant personnel about off-nominal conditions.

Keywords: DAML, FlexFeed, KAOS, KARMEN, OWL, agent, chemical process, monitoring, notification, ontology, policy

3 Haemo dialysis software architecture design experiences

PerOlof Bengtsson, Jan Bosch

May 1999 **Proceedings of the 21st international conference on Software engineering**

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#5	fieldbus	778
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#8	((fieldbus <in>metadata) <and> (configuration<in>metadata))<and> (transmission<in>metadata)	3
#9	((fieldbus<in>metadata) <and> (transmission rate<in>metadata))<and> (shutdown<in>metadata)	0
#10	((fieldbus<in>metadata) <and> (transmission <in>metadata))<and> (shutdown<in>metadata)	0
#11	((fieldbus<in>metadata) <and> (transmission <in>metadata))<and> (process<in>metadata)	16
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Instrumentation and Measurement Technology Conference, 1994. IMTC/94. Conference Proceedings. 10th Anniversary. Advanced Technologies in I & M., 1994 IEEE
10-12 May 1994
Page(s): 424-427 vol.1
Digital Object Identifier 10.1109/IMTC.1994.352034
Summary: The purpose of this work is to provide a method to increase the number of connectable devices for the Fieldbus. We have proposed a new signal transmitting method, which has features to reduce driven current during non-transmission and raise average d.....
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2. **Colored Petri nets based evaluation of transmission procedures at a fieldbus data link layer protocol**
Mnaouer, A.B.; Fujii, Y.; Sekiguchi, T.
Industrial Technology, 1994. Proceedings of the IEEE International Conference on
5-9 Dec 1994
Page(s): 371-375
Digital Object Identifier 10.1109/ICIT.1994.467093
Summary: In this paper we present an evaluation of the timer-controlled transmission procedures within the data link layer protocol of a fieldbus network of standard design, using timed colored Petri nets. The aim of this work is to assess the impact of the v.....
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3. **Pre-run-time scheduling to reduce schedule length in the FieldBus environment**
Cavalieri, S.; Di Stefano, A.; Mirabella, O.
Software Engineering, IEEE Transactions on
Volume: 21 Issue: 11 Nov 1995
Page(s): 865-880
Digital Object Identifier 10.1109/32.473215
Summary: The paper deals with the problem of scheduling the transmission of periodic processes in a distributed FieldBus system, defining the conditions guaranteeing correct transmission. The scheduling of periodic processes fixes the transmission times for e.....
AbstractPlus | References | Full Text: PDF IEEE JNL

4. **Transmission scheduling for fieldbus: a strategy to schedule data and messages on the bus with end-to-end constraints**
Franco, L.R.H.R.
Intelligence and Systems, 1996., IEEE International Joint Symposia on
4-5 Nov 1996
Page(s): 148-155
Digital Object Identifier 10.1109/IJSIS.1996.565063
Summary: The transmission scheduling for fieldbus has been addressed until now to minimize the number of data. It does not take into account the temporal dependency of data. Usually, the approaches of transmission scheduling for fieldbus let to the applicatio.....
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5. **An Improved CAN fieldbus for industrial applications**
Cena, G.; Valenzano, A.
Industrial Electronics, IEEE Transactions on
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Instrumentation and Measurement Technology Conference, 1994. IMTC/94. Conference Proceedings. 10th Anniversary. Advanced Technologies in I & M., 1994 IEEE
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Page(s): 424-427 vol.1
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2. **Intelligent field devices: user expectations**
Capetta, L.; Mella, A.; Russo, F.
Fieldbus Devices - A Changing Future, IEE Colloquium on
2 Dec 1994
Page(s): 6/1-6/4
Summary: Modern computerised systems for distributed control, maintenance and management of industrial plants communicate with each other and with the production process. This scenario includes Fieldbusses, intelligent actuators and transmitters, to make more.....
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Cavalieri, S.; Di Stefano, A.; Lo Bello, L.; Mirabella, O.
Industrial Electronics, 1996. ISIE '96., Proceedings of the IEEE International Symposium on
Volume: 2 17-20 Jun 1996
Page(s): 1031-1036 vol.2
Digital Object Identifier 10.1109/ISIE.1996.551087
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Volume: 44 Issue: 4 Aug 1997
Page(s): 553-564
Digital Object Identifier 10.1109/41.605633

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Summary: Modern computerised systems for distributed control, maintenance and management of industrial plants communicate with each other and with the production process. This scenario includes Fieldbusses, Intelligent actuators and transmitters, to make more.....
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2. **Formal modelling and analysis of a critical time communication protocol**
Juanole, G.; Gallon, L.
Factory Communication Systems, 1995. WFCS '95, Proceedings., 1995 IEEE International Workshop on
4-6 Oct 1995
Page(s): 107-115
Digital Object Identifier 10.1109/WFCS.1995.482656
Summary: In this paper, a communication protocol based on a local area network (fieldbus for example) in which a producer periodically sends data to a consumer (the consumer wishes to consume within a time window) is considered. Data transmission is assumed t.....
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3. **Petri net-based performance evaluation of asynchronous traffic management in FieldBus**
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Industrial Electronics, 1996. ISIE '96., Proceedings of the IEEE International Symposium on
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4. **A slot swapping based fieldbus**
Di Stefano, A.; Gangemi, A.; Lo Bello, L.; Mirabella, O.
Industrial Electronics Society, 1998. IECON '98. Proceedings of the 24th Annual Conference of the IEEE
Volume: 1 31 Aug-4 Sep 1998
Page(s): 214-219 vol.1
Digital Object Identifier 10.1109/IECON.1998.723996
Summary: The mechanisms for access to the physical channel used in the data link layer are one of the most controversial issues in Fieldbusses. Two approaches are widely used, the centralised and the distributed ones, the performance of which strictly depends.....
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5. **ATM networks for factory communication**
Cseh, C.; Janssen, M.; Jasperneite, J.
Emerging Technologies and Factory Automation, 1999. Proceedings. ETFA '99. 1999 7th IEEE International Conference on
Volume: 2 1999
Page(s): 797-804 vol.2
Digital Object Identifier 10.1109/ETFA.1999.813075
Summary: In this paper the authors discuss the suitability of the Asynchronous Transfer Mode (ATM) as a data transfer

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IEEE CNF	IEEE Conference Proceeding
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Article Information

1. **Intelligent field devices: user expectations**
   Capetta, L.; Mella, A.; Russo, F.
   Fieldbus Devices - A Changing Future, IEE Colloquium on
   2 Dec 1994
   Page(s): 6/1-6/4
   Summary: Modern computerised systems for distributed control, maintenance and management of industrial plants communicate with each other and with the production process. This scenario includes Fieldbusses, intelligent actuators and transmitters, to make more.....
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2. **A proposal modification of CAN protocol to support a dynamic priority policy being able to be implemented on CAN fieldbus controller components**
   Hasnaoui, S.; Bouallegue, A.
   Industry Applications Conference, 2000. Conference Record of the 2000 IEEE
   Volume: 2 2000
   Page(s): 1129-1136 vol.2
   Digital Object Identifier 10.1109/IAS.2000.881973
   Summary: Industrial local area networks, called controller area networks (CAN), are used in the framework of real-time distributed industrial applications. Such applications cover the drinking or used water adduction; the transportation and the distribution o.....
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3. **Fieldbus network implementation based on RS-485**
   Qian Dong; Jianying Xie
   Intelligent Control and Automation, 2002. Proceedings of the 4th World Congress on
   Volume: 4 2002
   Page(s): 2790- 2793 vol.4
   Digital Object Identifier 10.1109/WCICA.2002.1020032
   Summary: First, in this paper we present the integral structure of RS-485 fieldbus network in practical industrial applications. Through designing and implementing RS-485 fieldbus control systems, we gained much experience in configuration of resistor termin.....
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